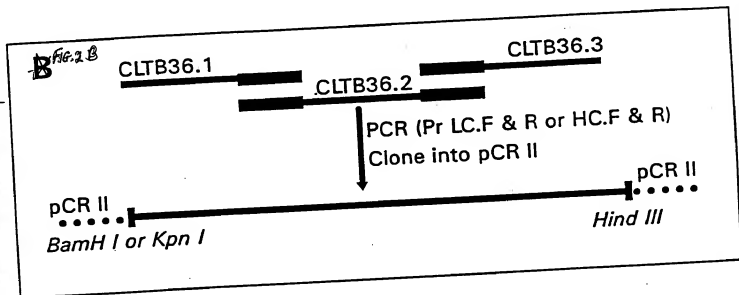


Assembly of gene encoding CLTB36

~~A~~ Fig. 2A

Amino acid seq. GPKEPFRDYVDRFYK NKRKRIHIGPGRFYTTKN

Gene seq. GGTCTAAAGAACCTTTTAGAGACTATGTTGATAGGTTTAA
TAAGAATAAGAGGAAGAGGATACATATAGGGCCTGGT
AGGGCTTTTATACTACTAAGAATTAATAA



~~C~~ Fig. 2C

CLTB36.1 CATTATGGATCCGGTCCTAAAGAACCTTTTAGAGACTATGTTGAT
AGGTTTTATAAGAAT

CLTB36.2 GCCCTACCAGGCCCTATATGTATCCTCTTCCTCTATTCTTATAAA
ACCTA

CLTB36.3 AGGGCCTGGTAGGGCTTTTATACTACTAAGAATTAATAAAAGCT
TTAGCG

Pr LC.F CATTATGGATCCGGTCCTAA

Pr HC.F GTCAGGTACCGGTCCTAAAGAACCTTTAG

Pr R GGCTAAAGCTTTTATTAATTC

BamH I
Kpn I
Hind III

~~Figure 2~~

ΔV_L sequence of the light chain of murine 44H104 mab:

ATG GAC ATG AGG GTT CCT GCT CAC GTT TTT GGC TTC TTG TTG CTC TGG TTT
 MET Asp MET Arg Val Pro Ala His Val Phe Gly Phe Leu Leu Trp Phe
 CCA GGT ACC AGA TGT GAC ATC CAG ATG ACC CAG TCT CCA TCC TCC TTA TCT
 Pro Gly Thr Arg Cys Asp Ile Gln MET Thr Gln Ser Pro Ser Ser Leu Ser
 GGC TCT CTG GGA CAA AGA GTC AGT CTC ACT TGT CGG GCA AGT CAG GAA ATT
 Ala Ser Leu Gly Gln Arg Val Ser Leu Thr Cys Arg Ala Ser Gln Glu Ile
 AGT GGT TAC TTA ACC TGG CTT CAG CAG AAA CCA GAT GGA ACT ATT AAA CGC
 Leu Val Tyr Ala Ala Ser Thr Trp Leu Gln Gln Lys Pro Asp Gly Thr Ile Lys Arg
 CTG GTC TAC GCC GCG TCC ACT TTA GAT TCT GGT GTC CCA AAA AGG TTC AGT
 Leu Val Tyr Ala Ala Ser Thr Leu Asp Ser Gly Val Pro Lys Arg Phe Ser
 GGC AGT AGG TCT GGG TCA GAT TAT TCT CTC ACC ATC AGC AGC CTT GAG TCT
 Gly Ser Arg Ser Gly Ser Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Ser
 GAA GAT TTT GCA GAC TAT TAC TGT CTA CAA TAT ACT AAT TAT CCG CTC ACG
 Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Tyr Thr Asn Tyr Pro Leu Thr
 TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA
 Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys

FIG. 1A

ΔV_H sequence of the heavy chain of murine 44H104 mab:

ATG GCT CTC CTG GTA CTG TTC CTC TCC CTG GCT GCA TTT CCA AGC TGT GGT
 MET Ala Leu Leu Val Leu Phe Leu Ser Leu Ala Ala Phe Pro Ser Cys Gly
 GTC CTG TCC CAG CTG CAG CTG AAG GAG TCA GGA CCT GGC CTG GTG GCG CCC
 Val Leu Ser Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro
 TCA CAG AGC CTG TCC ATC ACT TGC ACT GTC TCT GGG TTT TCA TTA ACC AGC
 Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser
 TAT GGT GTA CAC TGG GTT GCG CAG CCT CCA GGA AAG GGT CTG GAG TGG CTG
 Tyr Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 GGA GTA ATA TGG GCT GGT GGA AGC ATA AAT TAT AAT TCG GCT CTC ATG TCC
 Gly Val Ile Trp Ala Gly Gly Ser Ile Asn Tyr Asn Ser Ala Leu MET Ser
 AGA CTG AGC ATC AGC AAA GAC AAC TTC AAG AGC CAA GTT TTC TTA AAA ATG
 Arg Leu Ser Ile Ser Lys Asp Asn Phe Lys Ser Gln Val Phe Leu Lys MET
 AGC AGT CTG CAA ACT GAT GAC ACA GCC ATG TAC TAC TGT GCC AGA GCC TAT
 Ser Ser Leu Gln Thr Asp Asp Thr Ala MET Tyr Tyr Cys Ala Arg Ala Tyr
 GGT GAC TAC GTC CAC TAT GCT ATG GAC TAC TGG GGT CAA GGA ACC TCA GTC
 Gly Asp Tyr Val His Tyr Ala MET Asp Tyr Trp Gly Gln Gly Thr Ser Val
 ACC GCC TCC TCA
 Thr Ala Ser Ser

FIG. 1B

Figure 1

Figure 1

864110-26070060

Assembly of chimeric 44H104-CLTB36 light chain gene

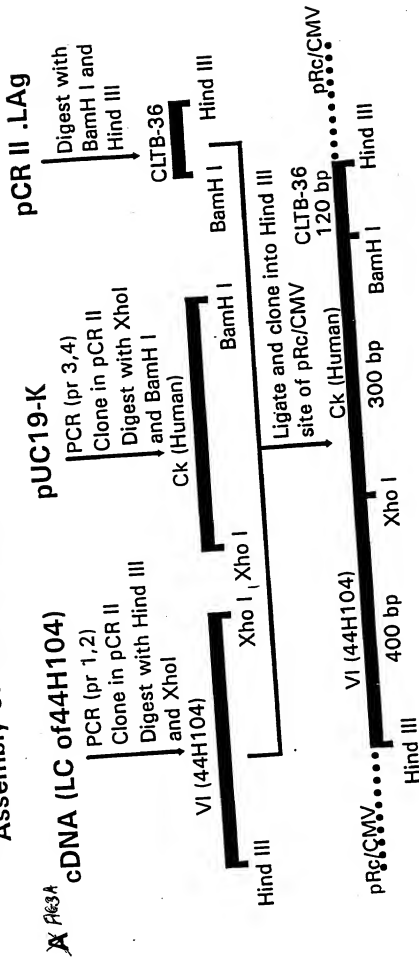


Fig. 3B

Pr. 1 AGCCTAAGCTTCCGCCCATGGACATGAGGGTTCCTGCTC

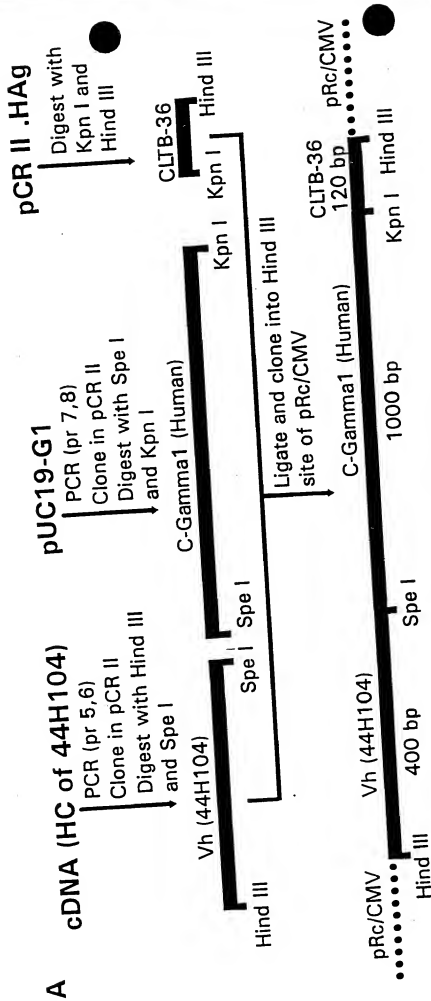
Pr. 2 CCGTTTCAGCTCGAGCTTGGTCCCAGCACCCGAA

Pr. 3 CCTACTCGAGCTGAAACGGAGCTGTGGCTGCACCATCTGTC

Pr. 4 ATTAAAGCTTTTACTAGGATCCACACTCTCCCTGTTGAAGCTC

Figure 3.

Assembly of chimeric 44H104-CLTB36 heavy chain gene



B

Pr. 5 AGCTAAGCIIICCGCCATGGCTCTCCTGTACTGTTC

Pr. 6 GCGCACTAGTTCCTTGACCCAGTAGTCC

Pr. 7 GCGCACTAGTGCACCGCCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTC

Pr. 8 ACGCAAGCIIITACTAGGTACCTTTACCCGGAGACAGGGAGAG

Figure 4

09007093-014498

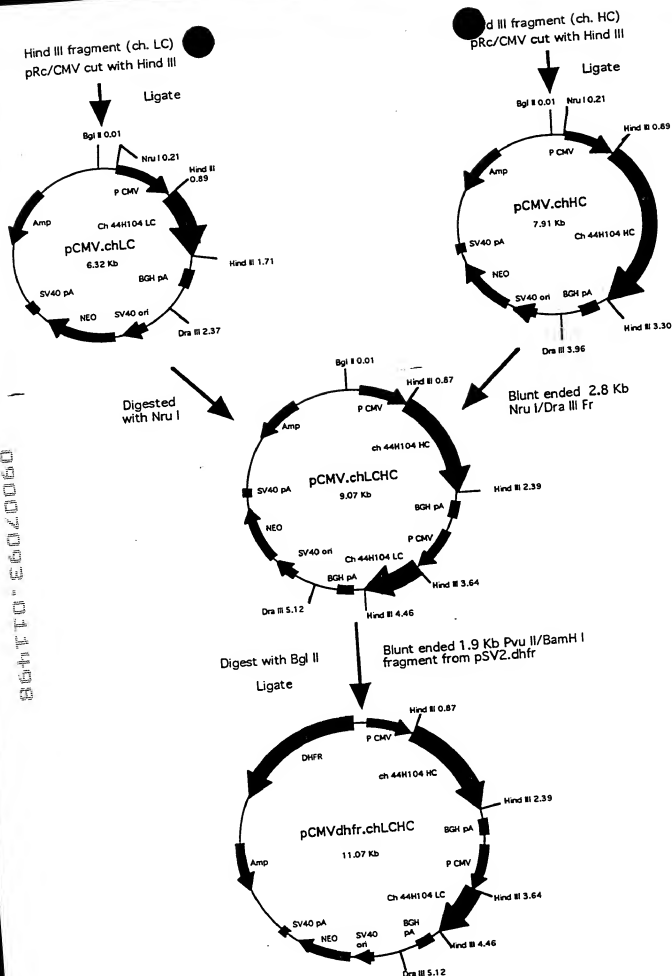
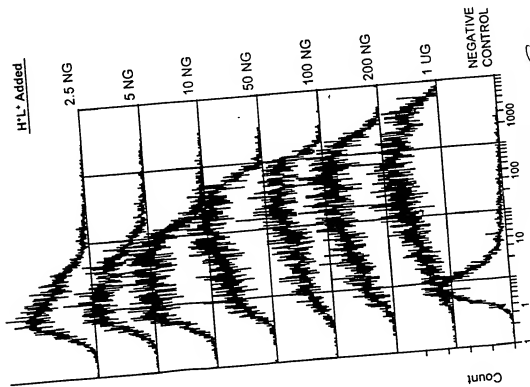


Figure 5

861110-26070060
Epitope Recognition on Recombinant H⁺L + Human Chimeric Antibody
Bound to HLA-DR

A. Anti-Human IgG



B. Anti-CLTB-36

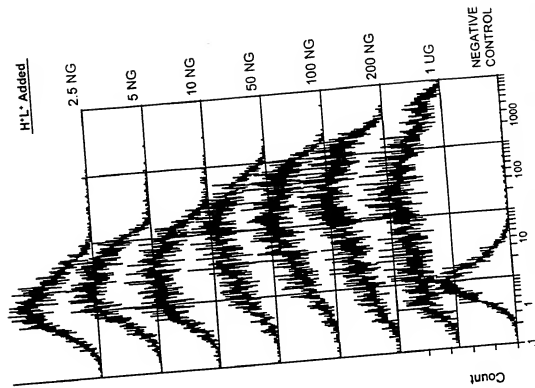
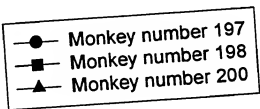
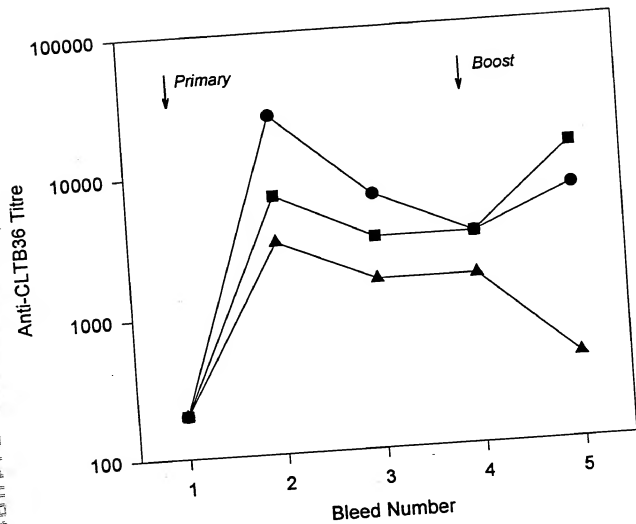


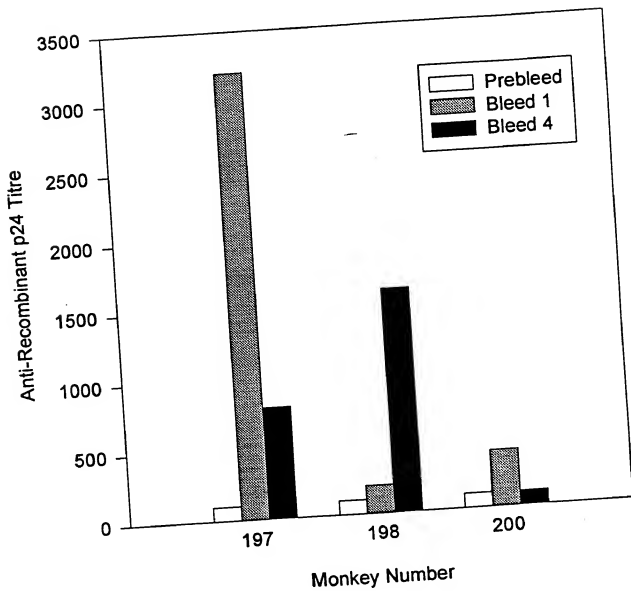
Figure 6

Figure 9 - Anti-CLTB36 Titres



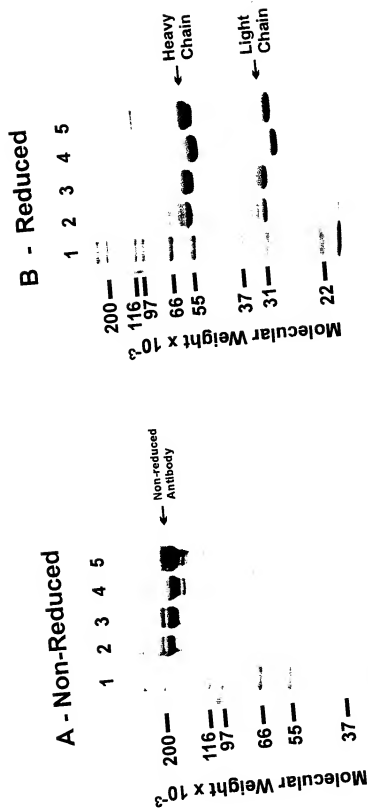
86hTTO-260/0060

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Figure 10 - Anti-Recombinant p24 Titres



864110*E6020060

Coomassie Blue stained Polyacrylamide Gels of Recombinant Targeting Antibody



- Lane 1 Molecular weight standards
- Lane 2 Recombinant targeting antibody - Protein A purified
- Lane 3 Recombinant targeting antibody - gel filtration purified
- Lane 4 Mouse monoclonal antibody 44H104
- Lane 5 Human IgG₁

864 FT0*E60/0060

Western blots of recombinant targeting antibody probed with guinea pig anti-CLTB36 antiserum

A - Non-Reduced

1 2 3 4 5 6

Molecular Weight $\times 10^3$

112 —
84 —
53 —
35 —

Non-reduced
Antibody

B - Reduced

1 2 3 4 5 6

Molecular Weight $\times 10^3$

112 —
84 —
53 —
35 —
29 —
21 —

Heavy
Chain

Light
Chain

Lane 1 Molecular weight standards

Lane 2 Blank lane

Lane 3 Recombinant targeting antibody - Protein A purified

Lane 4 Recombinant targeting antibody - gel filtration

purified

Lane 5 Mouse monoclonal antibody 44H104

Lane 6 Human IgG₁